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# New brunswick co2 incubators, innova and excella

**NBS CO2 incubators are offered in a range of sizes and price points:**

New Brunswick All CO2 Incubators

- **Innova CO-48 & CO-170 Incubators**- feature an advanced controller and exceptionally large display screen making it easy to read and program setpoints, monitor chamber conditions, historical data, alarms and diagnostics, as well as access built-in help menus. Numerous automated functions simplify operation for added convenience. Choose either our full-sized CO-170 (6.0 cu. ft./170 liters) or personal-sized CO-48 (1.7 cu. ft./48 liters).
- **Excella CO-170 Incubator**- same capacity as the Innova CO-170, this CO2 incubator's simple controls and smaller display screen provide an economical alternative to cost-conscious labs.
- **Innova CO-14 Incubator**- this miniature CO2 incubator (0.5 cu. ft./14 liters) allows you to easily isolate sensitive samples, avoiding cross-contamination issues. Originally designed for the rigorous requirements of in-vitro fertilization, it provides simple control with sophisticated design for a truly personalized culture environment.

## Innova<sup>®</sup> CO2 Incubators

Superior Control. Ultimate Convenience. Simply Better.

Capacity & Size	CO-170	CO-48
<b>Unit Type</b>	Full Size Incubator	Personal Size Incubator
<b>Capacity</b> (cubic feet, liters)	6.0 cu. ft. / 170 L	1.7 cu. ft / 48 L
<b>External Dimensions</b>		
WxDxH (inches)	27" x 26.4" x 33.3"	68.5 x 67 x 84.5
WxDxH (centimeters)	19.1" x 18.7" x 25.4"	48.4 x 47.5 x 64.5

## Performance

- Unique Six-Sided Direct Heating ensures stable temperature control, excellent uniformity ( $\pm 0.2^{\circ}\text{C}$ ), and rapid recovery with no overshoot.
- Extra-Large Display & Intuitive Controls Simplify Operation. Features help text, real-time data graphing, programmable alarms, diagnostics & more.
- Redesigned CO-170 Provides More Usable Chamber Space than Comparably-Sized CO2 Incubators! Taller, less deep design provides convenient access to all samples, and 17% more usable space than ever before.
- Elimination of Fan & Ductwork Increases Usable Chamber Space & Simplifies Cleaning. Gentle,

fanless convection circulation provides excellent chamber homogeneity, eliminates vibration & reduces sample evaporation.

- Infrared [IR] CO2 Sensor provides superior accuracy and stability over conventional thermal-conductivity sensors.
- High Humidity - Dry Wall Chamber achieves 95% RH, minimizing sample evaporation. Independent door heater eliminates condensation on inner glass surfaces.
- Use On or Under the Bench, or Stacked Two High. Ergonomically-positioned controls & display facilitate multi-position operation. Accessory stacking stands with feet or casters optimize height & maneuverability.

## **Convenience**

- 72-Hour Data Storage. CO2 concentration, temperature, alarms and door openings are automatically recorded for on-screen display. Optional communications package enables data logging to your PC.
- High-Temperature Decontamination Mode Simplifies Maintenance\*. Uses 120°C dry heat to decontaminate the chamber, all internal sensors, racks & humidity pan. (\*Optional feature.)
- CO2 Sensor Auto-Zero automatically adjusts baseline for optimum accuracy. User-programmable. Requires no manual measurements or operator intervention.
- On-Screen Help. Never lose your operating manual instructions again! Comprehensive text files walk you through set-up, programming and diagnostics.
- Seamless Chamber, Rounded Corners and external front flange prevent contamination and simplify cleaning.
- Bracket-Free Shelving Simplifies Cleaning. Ingenious bracket-free system eliminates areas where contaminants commonly collect to minimize contamination risk. Stainless rack & shelves are quickly removable, without tools. Four shelves in CO-170 and three in CO-48 standard; added shelving optional.
- Space-Saving - Convenient Size & Weight. Compared to air- or water-jacketed designs, direct heating decreases overall size and weight, while increasing chamber capacity. Simplifies setup, maintenance and relocation.
- Built-In System Diagnostics help you identify system status & expedite on-site service.

## **Dependability**

- Comprehensive Two-Level Alarm System includes audio and screen-displayed alarms for system status, with programmable alarms for CO2 and temperature setpoints, delays, duration & more.
- Password Protection ensures the integrity of all programmable system settings.
- Backed by Comprehensive Warranty on parts and labor, and factory-trained field service support.

## **Safety**

- Separate Over-Temperature Cutout prevents over-heating condition, in event of a control failure.
- Supervisory Microprocessor ensures system integrity by verifying main processor function.
- Non-Volatile Memory guarantees data integrity, regardless of length of time or frequency of power interruption.
- Alarm Setpoints Reset Automatically to  $\pm 0.5^{\circ}\text{C}$  and 0.5% above and below the new temperature/CO2 setpoint.

- HEPA Filter on CO2 Inlet provides added protection from potential contamination sources.

### **Innova CO-170 & CO-48 Incubator Options**

Pre-Configured Systems Allow You to Mix and Match All the Most Popular Options:

- High-Temperature Decontamination (120°C) for total peace of mind
- O2 Control (Three options) : 1  
- 19% or 1 - 95% or 0.1 - 19%. [Click here](#)

for white paper on hypoxic cell culture & cancer research.)

- Communications Package, consisting of an Access Port Pass-Through for sensors & probes; Remote Alarm Contacts to external user-supplied building alarm/monitoring system; and RS-232 Port with InnovaLog™ Data Logging Software for down-loading data to be your PC.
- Other Options and Accessories may also be available. Ask your NBS sales representative for details.

### **Excella ECO-170 & Innova CO-14 CO2 Incubators**

#### **Capacity & Size**

#### **Capacity**

(cubic feet, liters)

#### **CO-14**

0.5 cu. ft / 14 L

#### **ECO-170**

6.0 cu. ft / 170 L

#### **External Dimensions**

WxDxH (inches)

12.3" x 11.2" x 17.8"

31.3 x 28.5 x 45.1

WxDxH (centimeters)

27" x 26.4" x 33"

68.5 x 67 x 84

#### **Performance**

- Unique Six-Sided Direct Heating System ensures stable temperature control, excellent uniformity ( $\pm 0.2^\circ\text{C}$ ), and rapid recovery with no overshoot.
- Gentle, Fanless Convection Circulation provides excellent chamber homogeneity, eliminates vibration & reduces sample evaporation. Increases usable chamber space & simplifies cleaning by eliminating fan & ductwork.
- Infrared [IR] CO2 Sensor provides superior accuracy and stability over conventional thermal-conductivity sensors.
- Simple Display & Easy-to-Use Controls feature a user- friendly 4-button keypad and CO2 & temperature display, with audio/visual alarms.
- High Humidity - Dry Wall Chamber achieves 95% RH, minimizing sample evaporation. Independent door-heater eliminates condensation on inner door surfaces.
- Use On or Under the Bench, or Stacked Two High. Controls & display are ergonomically positioned for convenient use. (CO-14 includes foot recesses in lid for double-stacking. Incubators should never be placed directly on the floor. Under-bench carts are available. Mobile carts for double stacking are also offered.)

## Convenience

- Seamless Chamber, Rounded Corners and External Front Flange simplify cleaning and prevent contamination.
- Direct Heat Design Simplifies Setup, Maintenance and Relocation compared to air- or water-jacketed designs.
- Single-Door Entry System facilitates access to chamber. (Inner glass doors available as an option.)
- Bracket-Free Shelving System Simplifies Cleaning. Stainless wire rack shelf support and four\* shelves are easily and completely removed without tools. (\*Two shelves, Model CO-14.) Additional shelving available.

## Dependability

- User Programmable CO<sub>2</sub> & Temperature Alarms have selectable settings for setpoints, delays and duration.
- Comprehensive Audible and Visible Alarms monitor every sensor and warn of out-of-limit status.
- Backed by a Comprehensive Warranty on parts and labor, and factory-trained field service support.

## Safety

- Separate Over-Temperature Cutout prevents over-heating condition, in event of a control failure.
- Non-Volatile Memory guarantees data integrity, regardless of length of time or frequency of power interruption.
- Alarm Setpoints Reset Automatically to  $\pm 0.5^{\circ}\text{C}$  and 0.5% above and below the new temperature/CO<sub>2</sub> setpoint.
- HEPA Filter on CO<sub>2</sub> Inlet provides added protection from potential contamination sources.

## Excella CO-170 & Innova CO -14 Options

- High-Temperature Decontamination (CO-170, N. America only).
- O<sub>2</sub> Control (1 - 19%, CO-14 only. [Click here](#) for paper on hypoxic cell culture & cancer research.)
- Communications Package, consisting of an Access Port Pass-Through for sensors & probes; Remote Alarm Contacts to external user-supplied building alarm/ monitoring system; and RS-232 Port with InnovaLog Data Logging Software for downloading data to your PC.
- Inner Glass Door and Other Options and Accessories are available. Ask your NBS sales representative for quote.
- Copper Chamber & shelving (CO-170 only).



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